

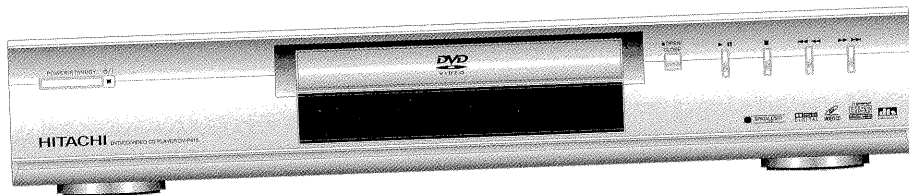
HITACHI

DVD PLAYER

MODEL

DV-P415U

INSTRUCTION MANUAL



Instruction manual

To obtain the best performance and ensure years of trouble-free use, please read this instruction manual completely.

Mode d'emploi

Des performances optimales et un fonctionnement à long terme seront assurés en appliquant les présentes instructions après avoir entièrement lu ce mode d'emploi.

Manual de instrucciones

Para obtener el mejor funcionamiento y asegurar años de uso libre de problemas, lea cuidadosamente este manual de instrucciones.

ENGLISH

FRANÇAIS

ESPAÑOL

Precautions



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

CAUTION: DVD PLAYERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTED.

CAUTIONS

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This class B digital apparatus meets all requirements of the Canadian Interference -- Causing Equipment Regulations.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

Precautions

WARNING

To reduce the risk of fire or shock hazard, do not expose this DVD player to rain or moisture.

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Notes:

- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, this DVD player cannot play the disc.
- This device is protected by U.S. patent numbers 4,631,603 and 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision's copy protection technology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Precautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged.
- Do not install the player on top of a heat producing device. When installing in a cabinet, place the player below the amplifier or any other heat producing audio devices, as far as possible (but in a dust free spot).
- Do not put a flower vase filled with water or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER/STANDBY button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

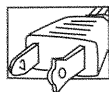
IMPORTANT SAFEGUARDS

In addition to the careful attention devoted to quality standards in the manufacture of your DVD player/CD recorder safety is a major factor in the design of every instrument. But safety is your responsibility too.

This page lists important information that will help to assure your enjoyment and proper use of a DVD player/CD recorder and accessory equipment. Please read it carefully before operating your DVD player/CD recorder and keep it in a handy place for future reference.

INSTALLATION

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a damp cloth. Unplug this apparatus from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- 7) Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or groundig-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lighting storms or when unused for long periods of time.

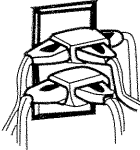


- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. When the apparatus exhibits a distinct change in performance - this indicates a need for service.

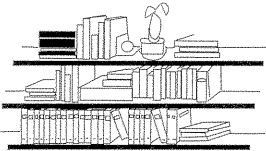
CAUTION:

1 **Power Sources** - This DVD player/CD recorder should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

2 **Overloading** - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords, damaged or cracked wire insulation and broken plugs. They may result in a shock or fire hazard. Periodically examine the cord and have it replaced by your service technician if appearance indicates damage or deteriorated insulation. service technician if appearance indicates damage or deteriorated insulation.



3 **Ventilation** - Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the DVD player/CD recorder and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the DVD player/CD recorder on a bed, sofa, rug, or other similar surface. This DVD player/CD recorder should never be placed near or over a radiator or heat register. This DVD player/CD recorder should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the DVD player/CD recorder manufacturer's instructions have been followed.



4 **Attachments** - Do not use attachments unless recommended by the DVD player/CD recorder manufacturer as they may cause hazards.

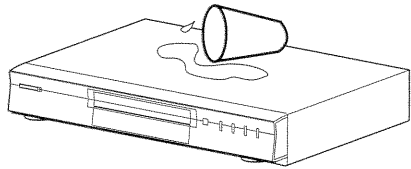
Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

5 **Water and Moisture** - Do not use this DVD player/CD recorder near water. For example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

6 **Accessories** - Do not place this DVD player/CD recorder on an unstable cart, stand, tripod, bracket, or table. The DVD player/CD recorder may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the DVD player/CD recorder. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

6A An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7 **Object and Liquid Entry** - Never push objects of any kind into this DVD player/CD recorder through opening as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the DVD player/CD recorder.

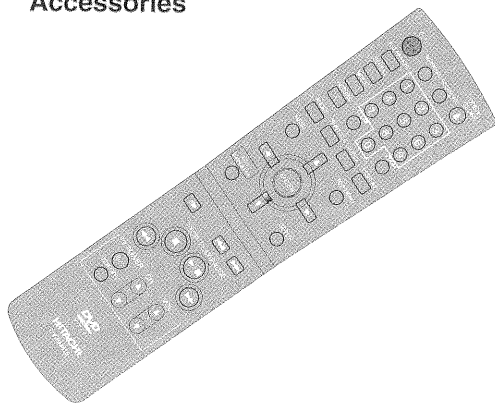


8 **Safety Check** - Upon completion of any service or repairs to this DVD player/CD recorder, ask the service technician to perform safety checks recommended by the manufacturer to determine that the DVD player/CD recorder is in safe operating condition.

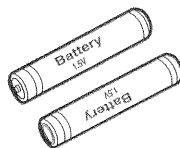
9 **Replacement Parts** - When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of replacements specified by the DVD player/CD recorder manufacturer can prevent fire, electric shock or other hazards.

Before You Start

Accessories



Remote Control



Batteries for Remote Control (AA Size)



Video/Audio Cable

Install Batteries in the Remote

- 1 Open the battery cover on the back of the remote.
- 2 Insert two AA batteries. Make sure that the polarities (+ and -) are aligned correctly.
- 3 Replace the battery cover.

If remote doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

Formation of condensation

Due to sharp changes in temperature and humidity, condensation may form if warm air comes in contact with any cold parts inside the player.

- When condensation forms inside the player, the player may not operate correctly. If this occurs, leave the player at room temperature until the inside of the player becomes dry and operational.
- If condensation forms on a disc, wipe the disc with a soft and dry cloth by moving the cloth from the center hole toward the outer edge.

NOTE

- This remote control can operate other Hitachi DVD players. If you have two DVD players and wish to operate only the DV-P415U, turn off the other player: If two players placed side by side are turned on, using the remote control will operate the other player as well as the DV-P415U.

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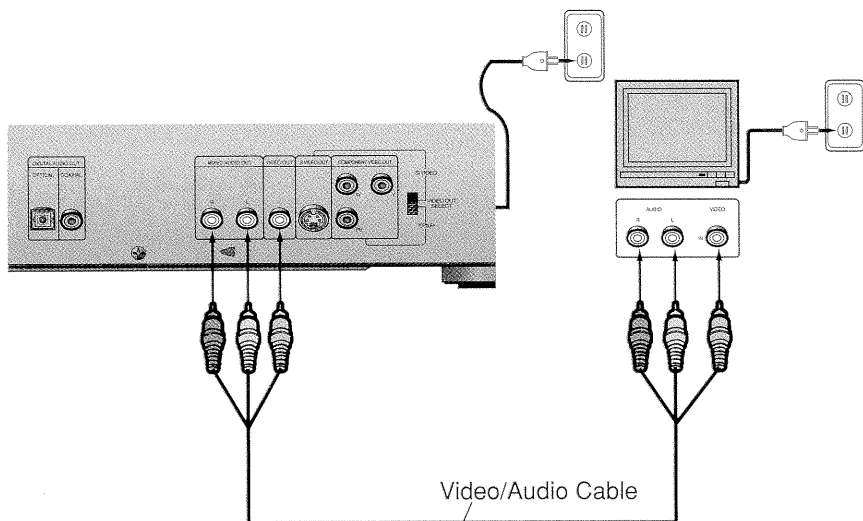
CHANGING SETUP MENU

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REFERENCE

Try to Play Disc Immediately

Connection to a TV



Try to Play Disc Immediately

To Play

1 Press the OPEN/CLOSE button.

- The power will be on and the tray will come out.

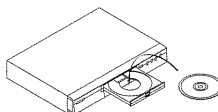


or



2 Place a disc.

- Place the disc along the guides with the label side up.



3 Press the PLAY/PAUSE button.

- The tray will close and playback will begin.



or



To terminate

1 Press the STOP button.

- The playback will terminate.



or



2 Press the OPEN/CLOSE button.

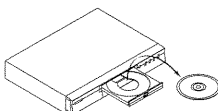
- The tray will come out.



or



3 Take out the disc.

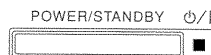


4 Press the POWER/STANDBY button.

- The tray will close and the power will be off.

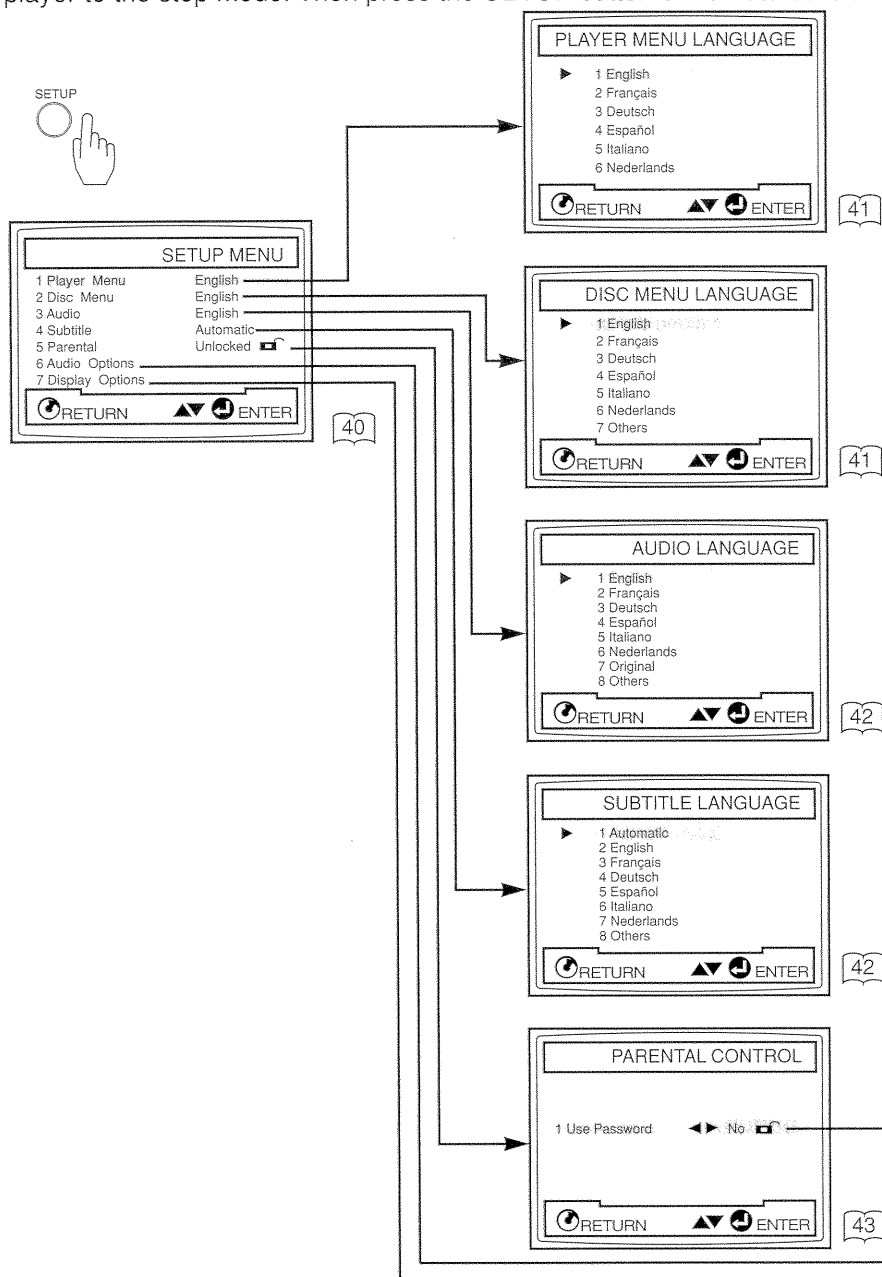


or



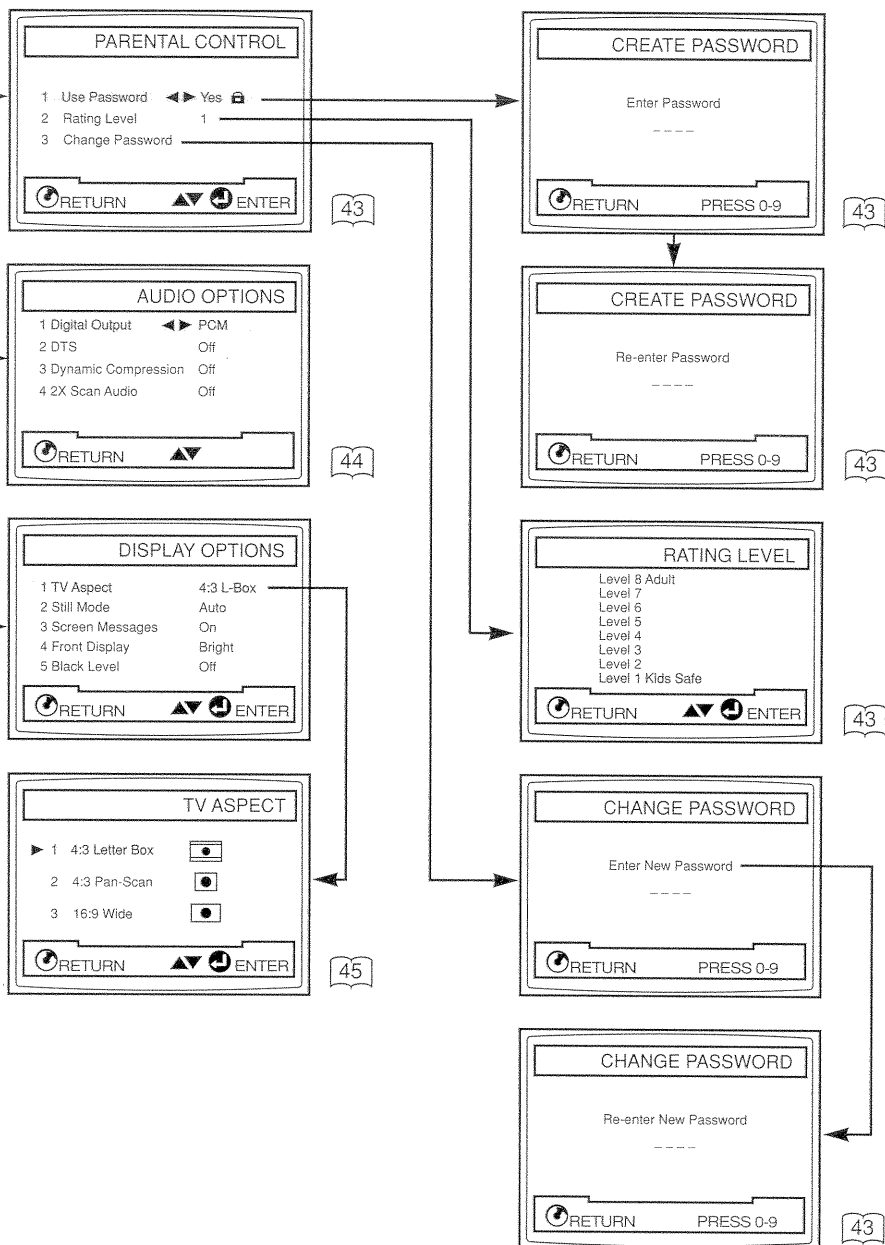
Identifying Menu Screens

Set a disc (DVD, VCD or CD), and press the ■ STOP button to set the player to the stop mode. Then press the SETUP button on remote control.



Identifying Menu Screens

Copyright © 2000 Philips North America Consumer Electronics



General Features

Disc Navigation

You can view the first picture of each title chapter(DVD) or track(VCD).

Multi TV remote control

You can use the remote control provided with this DVD player to control TV of 13 makers.

Excellent Sound

The Dolby Digital system developed by Dolby Labs provides crystal clear sound reproduction.

Screen

Video with MPEG-2 compression technology. Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion

An important scene can be viewed in slow motion.

Program Playback

You can program Chapter/Track to play in desired order.

Parental Control

The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions

You can select various languages(Audio/Subtitle) and screen angles while enjoying movies.

Repeat

You can repeat a song or movie simply by pressing the REPEAT button.

CD-R Playback




You can also playback CD-R discs, using the same operation for playing back CD.

Copy Protection

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	12 cm	Single-sided 242 min. Double-sided 484 min.	<ul style="list-style-type: none"> DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. Various screen and audio functions can be easily selected through the on-screen menu.
		8 cm	Single-sided 75 min. Double-sided 150 min.	
VIDEO-CD 	Audio + Video	12 cm	74 min.	<ul style="list-style-type: none"> Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD 	Audio	12 cm	74 min.	<ul style="list-style-type: none"> An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	

*DO NOT play CD-ROM, CD-I and DVD-ROM in this player!
(CDGs play audio only, not graphics.)

Disc Markings



· Playback
Region
Number

NTSC

· NTSC
broadcast
system in
U.S.A, Canada,
Korea, Japan,
etc.

DOLBY
DIGITAL

· Dolby
Digital
disc

STEREO

· Stereo
disc

DIGITAL
SOUND

· Digital
Audio disc

DTS

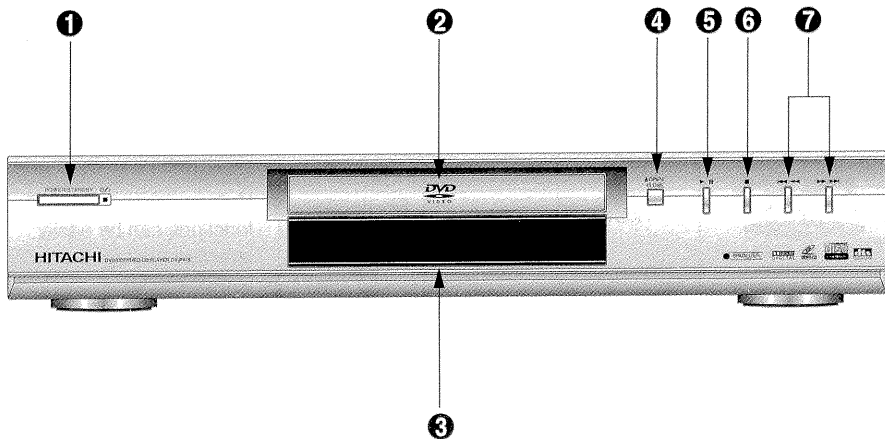
· DTS disc

Playback Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

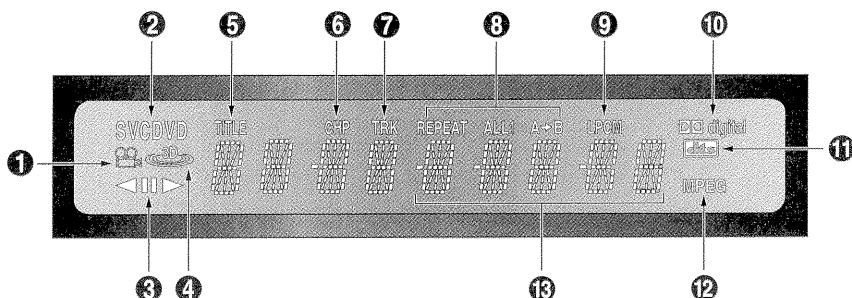
The Region Number for this player is described on the rear panel of the player.

Description-Front Panel



Front Panel Controls

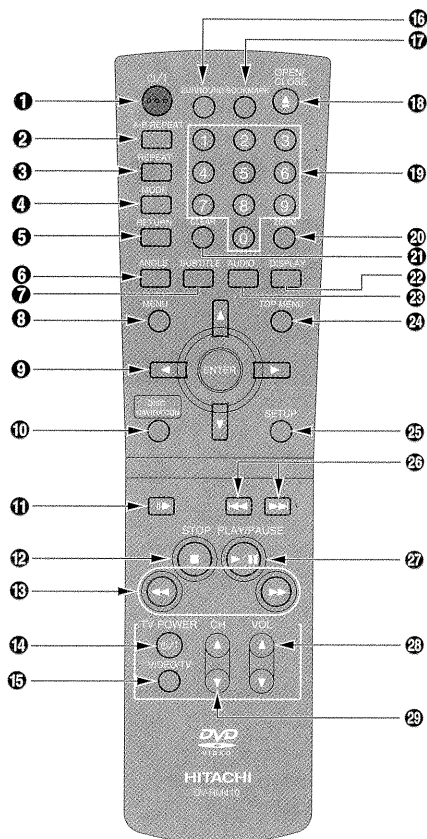
- ❶ **POWER/STANDBY** ϕ/I
 - When the unit is first plugged in, the indicator lights. When POWER/STANDBY ϕ/I is pressed, the lamp goes out and the player is turned on.
- ❷ **DISC TRAY**
 - Press \blacktriangle OPEN/CLOSE to open and close the disc tray.
- ❸ **DISPLAY**
 - Operation indicators are displayed here.
- ❹ **\blacktriangle OPEN/CLOSE**
 - Press to open and close the disc tray.
- ❺ **\blacktriangleright/II (PLAY/PAUSE)**
 - Begin or pause disc play.
- ❻ **\blacksquare (STOP)**
 - Stops disc play.
- ❼ **$\lll/\lll \ggg/\ggg$ (SKIP/SEARCH)**
 - Use to skip a scene or music.
 - If this button is held down for approx. two seconds, it will switch to the search button: Thereafter, each time the button is pressed, the search speed will switch to 2X, 4X, 8X, 16X, 32X, 128X, after which SKIP will be restored.



Front Panel Display

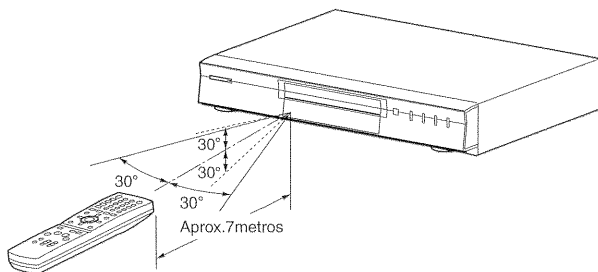
- 1 You can now select different viewing points of the scene recorded by different cameras (Multi Angle).
 - 2 Disc type indicators
 - 3 Reverse playback / Pause / Forward playback
 - 4 Lights when 3D sound is turned on.
 - 5 DVD : Title number
 - 6 DVD : Chapter number.
 - 7 Video/Audio CD : Track number
 - 8 Repeat play mode
 - 9 Linear PCM audio output
 - 10 Dolby Digital audio output
 - 11 DTS (Digital Theater System) audio output(Digital only)
 - 12 MPEG-2 Audio output
 - 13 Displays various messages concerning operations such as PLAY, STOP, LOAD, RANDOM, ...
- no DISC** : No disc loaded.
OPEN : The disc tray is open.
LOAD : Player is loading disc information.

Tour of the Remote Control



How to handle the remote control

- Operate the remote control within the following area, in a straight line from the signal detecting eye of the player and an angle of 30°.









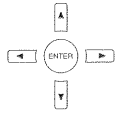





DVD Function Buttons


















- ❶ **POWER/STANDBY Button**
 - Turns the player on and off.
- ❷ **A-B REPEAT Button**
 - Marks a segment to repeat between A and B.
- ❸ **REPEAT Button**
 - Allows you to repeat play a title, chapter, track, or disc.
- ❹ **MODE Button**
 - Allows you to program a specific order.
- ❺ **RETURN Button**
 - Returns to a previous menu.
- ❻ **ANGLE Button**
 - Accesses various camera angles on a disc.
- ❼ **SUBTITLE Button**
 - Accesses various subtitles on a disc.
- ❽ **MENU Button**
 - Brings up the Menu on a disc.
- ❾ **ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT Button)**
- ❿ **DISC NAVIGATION Button**
 - To view the first picture of each chapter(DVD) or track(VCD).
- ⓫ **STEP Button**
 - Advances playback one frame at a time.
- ⓬ **STOP Button**
 - To stop playback.
- ⓭ **SEARCH Buttons**
 - Allows you to search forward/backward through a disc.
- ⓮ **TV POWER Button**
 - To turn the TV on and off.
- ⓯ **VIDEO/TV Button**
 - To select the input: VIDEO (DVD player) or TV.
- ⓰ **SURROUND Button**
 - To activate the 3D sound.
- ⓱ **BOOKMARK Button**
 - To rapidly return to a location of disc.
- ⓲ **OPEN/CLOSE Button**
 - To open or close the disc tray.
- ⓳ **NUMBER Buttons**
- ⓴ **ZOOM Button**
 - To magnify part of picture.
- ⓵ **CLEAR Button**
 - Removes menus or status displays from the screen.
- ⓶ **DISPLAY Button**
 - Displays the current disc mode.
- ⓷ **AUDIO Button**
 - Accesses various audio functions on a disc.
- ⓸ **TOP MENU Button**
 - Brings up the Top Menu on a disc.
- ⓹ **SETUP Button**
 - Brings up the DVD player's Setup menu.
- ⓺ **SKIP Buttons**
 - Skip the, Chapter, or Track.
- ⓻ **PLAY/PAUSE Button**
 - Begin/Pause disc play.
- ⓼ **VOL Buttons**
 - To adjust the TV volume.
- ⓽ **CH Buttons**
 - To switch TV channels.

Tour of the Remote Control

Buttons on remote control work in different ways for DVD, VCD and CD:
Refer to the following table for correct use.

	DVD	VCD	CD
POWER/STANDBY Button 	<ul style="list-style-type: none"> Turns the player on and off (P.9). 	<ul style="list-style-type: none"> Turns the player on and off (P.9). 	<ul style="list-style-type: none"> Turns the player on and off (P.9).
A-B REPEAT Button 	<ul style="list-style-type: none"> Marks a segment to repeat between A and B (P.30). 	<ul style="list-style-type: none"> Marks a segment to repeat between A and B (P.30). 	<ul style="list-style-type: none"> Marks a segment to repeat between A and B (P.30).
REPEAT Button 	<ul style="list-style-type: none"> Allows you to repeat play a Title, Chapter or Disc (P.30). 	<ul style="list-style-type: none"> Allows you to repeat play a Track, Disc or A-B (P.30). 	<ul style="list-style-type: none"> Allows you to repeat play a Track, Disc or A-B (P.30).
MODE Button 	<ul style="list-style-type: none"> Allows you to program a specific order or random playback (P.31). 	<ul style="list-style-type: none"> Allows you to program a specific order or random playback (P.31). 	<ul style="list-style-type: none"> Allows you to program a specific order or random playback (P.31).
RETURN Button 	<ul style="list-style-type: none"> Returns to a previous menu. 	<ul style="list-style-type: none"> Returns to a previous menu. 	<p>_____</p>
ANGLE Button 	<ul style="list-style-type: none"> Accesses various camera angles on a disc (P.36). 	<p>_____</p>	<p>_____</p>
SUBTITLE Button 	<ul style="list-style-type: none"> Accesses various subtitles on a disc (P.35). 	<p>_____</p>	<p>_____</p>
MENU Button 	<ul style="list-style-type: none"> Brings up the Menu on a disc (P.34). 	<ul style="list-style-type: none"> Switches menu on or off (VCD 2.0) (P.33). 	<p>_____</p>
ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT Button) 	<ul style="list-style-type: none"> Moves the cursor and determines its position. 	<ul style="list-style-type: none"> Moves the cursor and determines its position. 	<ul style="list-style-type: none"> Moves the cursor and determines its position.
DISC NAVIGATION Button 	<ul style="list-style-type: none"> To view the first picture of each Chapter (P.32). 	<ul style="list-style-type: none"> To view the first picture of each Track (P.33). 	<ul style="list-style-type: none"> To hear the Intro of each Track (P.33).
STEP Buttons 	<ul style="list-style-type: none"> Advances playback one frame at a time (P.25). 	<ul style="list-style-type: none"> Advances playback one frame at a time (P.25). 	<p>_____</p>
STOP Buttons 	<ul style="list-style-type: none"> To stop playback (P.9). 	<ul style="list-style-type: none"> To stop playback (P.9). 	<ul style="list-style-type: none"> To stop playback (P.9).

Tour of the Remote Control

	DVD	VCD	CD
SEARCH Buttons 	<ul style="list-style-type: none"> Allows you to search forward/backward through a disc (X2/X4/X8/X16/X32/X128) (P.26). 	<ul style="list-style-type: none"> Allows you to search forward/backward through a disc (X4/X8) (P.26). 	<ul style="list-style-type: none"> Allows you to search forward/backward through a disc (X2/X4/X8) (P.26).
TV POWER Button 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20).
VIDEO/TV Button 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20).
SURROUND Button 	<ul style="list-style-type: none"> To activate the 3D sound (P.38). 	<ul style="list-style-type: none"> To activate the 3D sound (P.38). 	<ul style="list-style-type: none"> To activate the 3D sound (P.38).
BOOKMARK Button 	<ul style="list-style-type: none"> To rapidly return to a location of disc (P.37). 	<ul style="list-style-type: none"> To rapidly return to a location of disc (Menu off mode) (P.37). 	<p>—</p>
OPEN/CLOSE Button 	<ul style="list-style-type: none"> To open or close the disc tray (P.9). 	<ul style="list-style-type: none"> To open or close the disc tray (P.9). 	<ul style="list-style-type: none"> To open or close the disc tray (P.9).
NUMBER Buttons 	<ul style="list-style-type: none"> To use display function, or input program order (P.24). 	<ul style="list-style-type: none"> To select track directly, use display function, or input program order (VCD 2.0) (P.24). 	<ul style="list-style-type: none"> To select track directly, use display function, or input program order (P.24).
ZOOM Button 	<ul style="list-style-type: none"> To magnify part of picture (X2/X4) (P.38). 	<ul style="list-style-type: none"> To magnify part of picture (X2) (P.38). 	<p>—</p>
CLEAR Button 	<ul style="list-style-type: none"> Removes menus or status displays from the screen. 	<ul style="list-style-type: none"> Removes menus or status displays from the screen. 	<ul style="list-style-type: none"> Removes menus or status displays from the screen.
DISPLAY Button 	<ul style="list-style-type: none"> Displays the current disc mode (P.29). 	<ul style="list-style-type: none"> Displays the current disc mode (P.29). 	<ul style="list-style-type: none"> Displays the current disc mode (P.29).
AUDIO Button 	<ul style="list-style-type: none"> Accesses various audio functions on a disc (P.34). 	<ul style="list-style-type: none"> Accesses various audio functions on a disc (P.34). 	<ul style="list-style-type: none"> Accesses various audio functions on a disc (P.34).
TOP MENU Button 	<ul style="list-style-type: none"> Brings up the Top Menu on a disc (P.28). 	<p>—</p>	<ul style="list-style-type: none"> To hear the Intro of each Track (P.28).
SETUP Button 	<ul style="list-style-type: none"> Brings up the DVD player's Setup menu (P.10). 	<ul style="list-style-type: none"> Brings up the DVD player's Setup menu (P.10). 	<ul style="list-style-type: none"> Brings up the DVD player's Setup menu (P.10).
SKIP Buttons 	<ul style="list-style-type: none"> To skip Chapters (P.26). 	<ul style="list-style-type: none"> To skip Tracks (P.26). 	<ul style="list-style-type: none"> To skip Tracks (P.26).
PLAY/PAUSE Button 	<ul style="list-style-type: none"> Begin/Pause disc play (P.9). 	<ul style="list-style-type: none"> Begin/Pause disc play (P.9). 	<ul style="list-style-type: none"> Begin/Pause disc play (P.9).
VOL Button 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20).
CH Button 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20). 	<ul style="list-style-type: none"> To exclusively control the TV. (P.20).

Tour of the Remote Control

You can use the remote control provided with this DVD player to control TV of 13 makers.

Program the TV code to the remote control as follows when using it:
It is not necessary to reprogram the code each time you operate the TV using the remote control.

Using the remote control to operate the TV

1 While holding down the TV POWER button, press the key on remote control to match the TV maker.

- Refer to the following table for TV codes.

2 Press the TV POWER button.

- If the TV can be turned on and off, the remote control can now be used to operate the TV.

NOTES

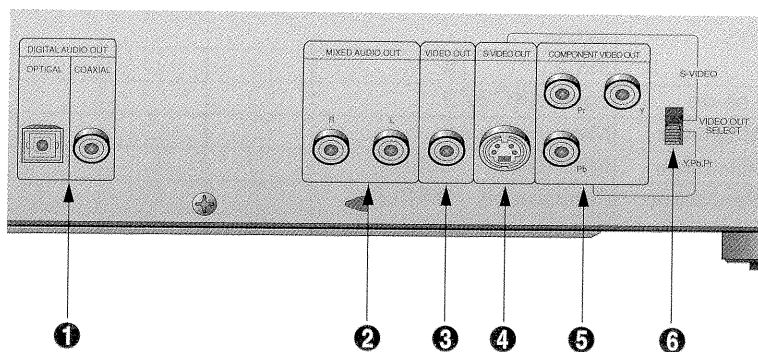
- HITACHI, Panasonic and Sharp have two types of TV code: Select the code with which TV power can be turned on and off.
- The remote control may not be usable with your TV, or some of its buttons may not work, depending on its manufacturing date or model.

Tour of the Remote Control

TV Code Table

No.	Brand	Code	Key allocation	CH button	VOL button	VIDEO/TV button
1	Hitachi	Hitachi1	1	○	○	○
2		Hitachi2	2	○	○	○
3	JVC	JVC1	7	○	○	○
4		JVC2	8	○	○	×
5	Loewe	Loewe(RC-5)	9	○	○	○
6	Magnavox	Magnavox	0	○	○	○
7	Mitsubishi	Mitsubishi	CLEAR	○	○	○
8	Panasonic	PanasonicA	DISPLAY	○	○	○
9		PanasonicB	MENU	○	○	○
10	Philips	Philips	TOP MENU	○	○	○
11	RCA	RCA	◀	○	○	○
12	Samsung	Samsung	DISC NAVIGATION	○	○	○
13	Sanyo	Sanyo	▼	○	○	○
14	Sharp	SharpA	⏮▶	○	○	○
15		SharpB	⏮⏮	○	○	○
16	Sony	Sony	⏮⏮	○	○	×
17	Toshiba	Toshiba	■	○	○	○
18	Zenith	Zenith	⏮⏮	○	○	×

Description-Rear Panel



Rear Panel

❶ DIGITAL AUDIO OUT JACK

- Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to an A/V Amplifier that contains a Dolby Digital decoder or DTS decoder.

❷ MIXED AUDIO OUT JACKS

- Connect to the Audio input jacks of your television, audio/video receiver.

❸ VIDEO OUT JACK

- Use a video cable to connect one of the jack to the Video input on your television.

❹ S-VIDEO OUT JACK

- Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture. The S-Video must be selected in the VIDEO OUT SELECT switch.

❺ COMPONENT VIDEO OUT JACKS

- Use these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and Y video. Along with S-Video, Component Video provides the best picture quality. The Y, Pb, Pr must be selected in the VIDEO OUT SELECT switch.

❻ VIDEO OUT SELECT switch

- Use the switch to set video out.
- If the Y, Pb or Pr is selected, the S-Video may not work.
- If the S-Video is selected, the Y, Pb or Pr may not work.

Choosing a Connection

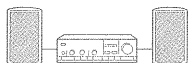
The following show examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connection the DVD Player

- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to owner's manual of the additional components you are connecting for more information for those particular components.

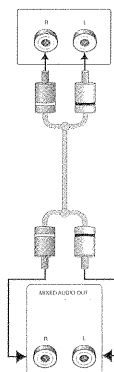
Connection to an Audio System

Method 1



2ch Stereo Amplifier
Dolby Pro Logic Decoder

Audio Input Jacks



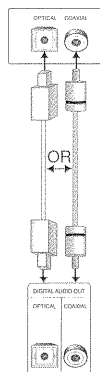
Analog Audio Out

Method 2



Amplifier with Dolby Digital Decoder
DTS Decoder

Digital Audio Input Jack



Digital Audio Out

AUDIO

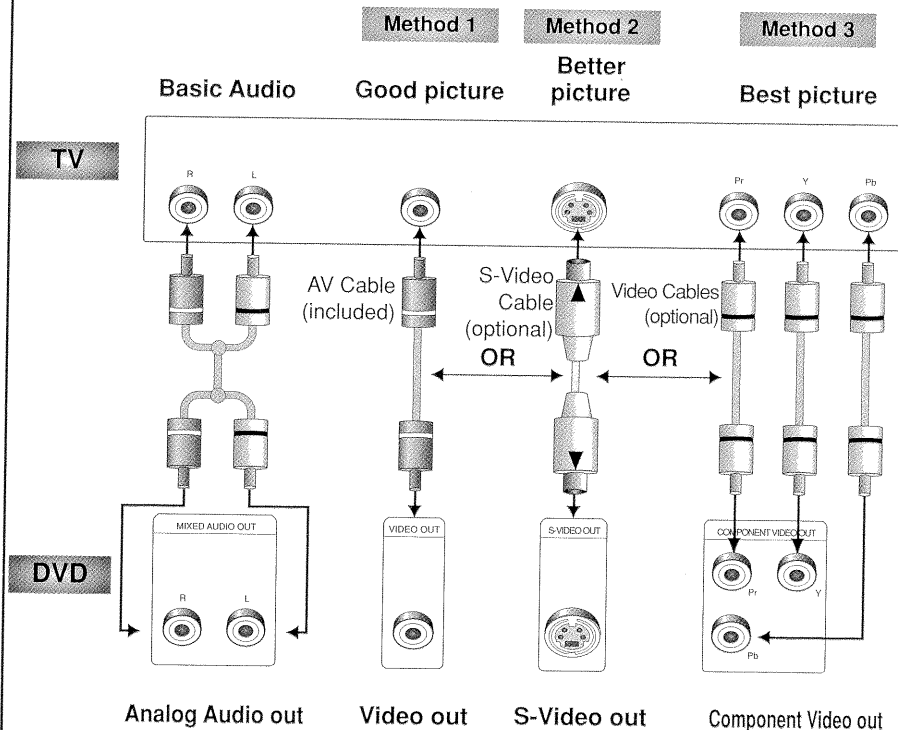
DVD

- **Method 1** DVD Player + 2ch Stereo Amplifier or Dolby Pro Logic Decoder
- **Method 2** DVD Player + Amplifier with Dolby Digital Decoder/DTS Decoder

Choosing a Connection

Connection to a TV (For Video)

TV (Normal, Widescreen, Projection, etc..)

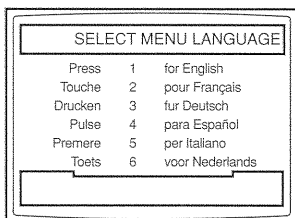


- **Method 1** DVD Player + TV with Video Input Jack
- **Method 2** DVD Player + TV with S-Video Input Jack
(If the S-Video is selected in the VIDEO OUT SELECT switch.)
- **Method 3** DVD Player + TV with Component Video Jacks
(If the Y, Pb or Pr is selected in the VIDEO OUT SELECT switch.)

NOTES

- If the VIDEO OUT SELECT switch (on the rear panel) is set to Y, Pb or Pr, the S-Video may not work.
- If the VIDEO OUT SELECT switch is set to S-Video, the Y, Pb or Pr may not work.
- After correcting the switch, turn power off and then on again.

Playing a Disc



Before Playback

- Turn on a TV and press the TV/VIDEO button to select video mode.
- Turn on your Audio System to select AUX, CD or DVD.
- Refer to your AUDIO User's Manual.

After plugging in the player, the first time you press the POWER/STANDBY button, this screen comes up :

If you want to select the language, press a NUMBER button. (This screen will only appear the very first time you plug in the player.)


Playback

- 1** Press the **▲** OPEN/CLOSE button.
The STANDBY indicator light goes out and the tray opens.
- 2** Place a disc gently into the tray with the disc's label facing up.
- 3** Press the **▶/||** PLAY/PAUSE button or **▲** OPEN/CLOSE button to close the disc tray.

RESUME function

When you stop disc play, the player remembers where you stopped, so when you press **▶** PLAY again, it will pick up where you left off (unless the disc is removed, the **■** STOP button is pressed twice or the player is unplugged.)

NOTES

- If the player is left for an approximate 2 minutes in pause mode, it will stop.
- The power is automatically turned off after approximately 30 minutes have elapsed in the stop mode (auto power-off feature).
- If the player is left in the stop mode for more than one minute without any user interaction, a screensaver will be activated, and the TV screen will fade in and fade out repeatedly. Press **▶** PLAY button to resume normal play.
- When a CD is played back, the TV screen will be black.
- This  icon indicates an invalid button press.

Playing a Disc

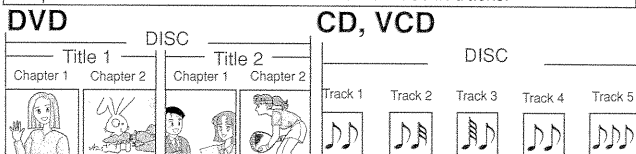
Several options are available during DVD playback.

- 1** Stopping Playback
Press the ■ STOP button in playback.
- 2** Removing Disc
Press the ▲ OPEN/CLOSE button.
- 3** Pausing Playback
Press the ►/|| PLAY/PAUSE or ||► STEP button on the remote during playback.
 - Screen stops, no sound.
 - To resume again, press ►/|| PLAY/PAUSE button once again.
- 4** Step Motion Playback (Except CD)
Press the ||► STEP button on the remote during playback.
 - Each time the button is pressed, a new frame will appear.
 - No sound is heard during STEP mode.
 - Press ►/|| PLAY/PAUSE to resume normal playback.(You can only perform step motion playback in the forward direction.)
- 5** Slow Motion Playback (Except CD)
Press the ►► FWD SEARCH button on the remote during PAUSE or STEP mode.
 - By pressing, you can select slow motion playback for 1/8, 1/4 or 1/2 of normal speed.
 - No sound is heard during slow mode.
 - Press ►/|| PLAY/PAUSE to resume normal playback.
 - The reverse slow motion playback will not work.

NOTE

■ About Title, Chapter, and Track

In a DVD, the contents are divided in titles, and the titles are divided in chapters. The contents in a VCD or CD are divided in tracks.






Using the Search and Skip Functions

During playback, you can search quickly through a Chapter or Track or use the skip function to jump to the next selection.

Searching through a Chapter or Track

1 Press the ►► FWD SEARCH button or ◀◀ REV SEARCH button on the remote during PLAY mode.

- Press the ◀◀ REVERSE or ►► FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X/16X/32X/128X, in order) on DVD. (If the ►► FORWARD SEARCH button is pressed at the 128X speed, the  mark will appear.)
- Press the ◀◀ REVERSE or ►► FORWARD SEARCH button on the remote and press again to search at a faster speed(4X/8X, in order) on VCD. (If the ►► FORWARD SEARCH button is pressed at the 8X speed, the  mark will appear.)
- Press the ◀◀ REVERSE or ►► FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X, in order) on CD. (If the ►► FORWARD SEARCH button is pressed at the 8X speed, the  mark will appear.)
- To return to normal speed playback, press the ►/|| PLAY/ PAUSE button.

Skipping Tracks

2 Press the ►► NEXT SKIP or ◀◀ BACK SKIP button during playback.

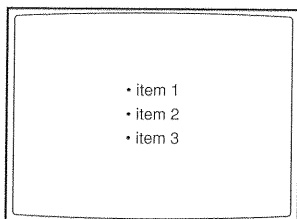
- When playing a DVD, if you press the ►► NEXT SKIP button, it moves to next Chapter. If you press the ◀◀ BACK SKIP button, it moves to the beginning of the Chapter. One more press makes it move to the beginning of the previous Chapter.
- When playing a VCD 2.0 in MENU OFF mode, a VCD 1.1 or a CD, if you press ►► NEXT SKIP button, it moves to next Track. If you press ◀◀ BACK SKIP button, it moves to the beginning of the Track. One more press makes it move to the beginning of the previous Track.
- If a Track exceeds 15 minutes when playing a VCD and you press ►► NEXT SKIP button, it moves forward 5 minutes. If you press ◀◀ BACK SKIP button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press ►► NEXT SKIP button, it moves to the next MENU or the next Track View display. If you press ◀◀ BACK SKIP button, it moves to the previous MENU or the previous Track View display. (See page 34.)

NOTE

- While in search (2X/4X/8X/16X/32X/128X) on DVD or high-speed playback on VCD, no sound will be heard.

Using Menu Screen on Disc for Playback

ON some DVD and VCD discs the Menu screen may be recorded. You can use the Menu screen to select the item you want to play.



When Playing a DVD

1 Press the MENU button.

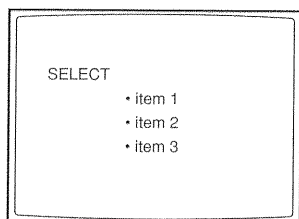
- The Menu screen will appear.
- With some discs, the Menu screen will automatically appear.
- The Menu screen varies depending on the discs.

2 Use the ▲▼◀▶ UP/DOWN/LEFT/RIGHT button to select the desired item.

- With some DVDs, you can use the number buttons to select the item.

3 Press the ENTER button.

- Play the disc, following the Menu.



When playing a VCD(version 2.0)

1 Play a VCD(version 2.0)

- The Menu screen will appear.

2 Use the number buttons to select the desired item.

- Simply pressing the number buttons will enter the item.
- With some VCDs, you can use the ►/|| PLAY/PAUSE, ◀▶/SKIP and RETURN buttons play the disc.

With some VCDs, the RETURN button operation may be displayed using the ↺ mark.

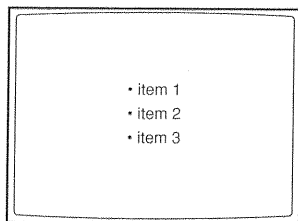
- Press the RETURN button to return to the Menu screen during play.

NOTES

- With some DVDs, you may not be able to call the Menu screen by pressing the MENU button : In such cases, press the TOP MENU button.
- Some DVDs do not have any Menu or Top Menu.
- When playing a VCD 1.1 or CD, the Menu screen will not appear.
- If you play a VCD by displaying the Menu screen, the functions other than those following the Menu will not work.
- In VCD disc version 2.0, the MENU button works as a conversion switch between MENU ON and MENU OFF modes.

Using Top Menu Screen on Disc to Play DVD

With some DVDs, several Titles are recorded and the Top Menu is provided. Use the Top Menu screen to play such DVDs for convenience.



1 Press the TOP MENU button.

- The Top Menu screen will appear.
- The Top Menu screen varies according to the disc.

2 Use the ▲▼◀▶ UP/DOWN/LEFT/RIGHT button to select the desired item.

- With some DVDs, you can use the number buttons to select the item.

3 Press the ENTER button.

- Play the disc, following the Top Menu.

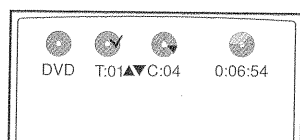
NOTES

- Some discs may not have Top Menu.
- Some discs may display the same screen even if the MENU button is pressed or the TOP MENU button is pressed.

Using the Display Function

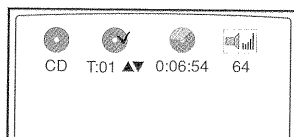
If you want to obtain the information on the title, chapter, time, audio configuration and subtitles in DVD play, press the DISPLAY button. To get information on the track and time in VCD or CD play, also press DISPLAY.

When Playing a DVD



NOTES

- If playback of DVD second layer starts, a small dot (.) will appear before the letters DVD on the information screen.
- If the DISPLAY button is pressed during playback of DVD discs in order to switch on-screen information on or off, the picture and/or sound may stop momentarily.



NOTE

- The on-screen information will automatically switch off if no button is operated for approx. one minute.

1 During playback, press the DISPLAY button on the remote.

- Current Title, Chapter number and elapsed time will be displayed.
- Use the ◀▶ LEFT/RIGHT button to select a Title or a Chapter number.
- Use the ▲▼ UP/DOWN button or Number buttons to enter a different Title or Chapter number, then press the ENTER button.
- To enter the time from which you want to start, use the ◀▶ LEFT/RIGHT button to select, then use the Number buttons to enter the time. Then press the ENTER button.

2 Press the DISPLAY button on the remote twice.

- Current Audio, Subtitle and volume control will appear.
- To make the screen disappear, press the DISPLAY button again.

When Playing a CD/VCD

1 During playback, press the DISPLAY button on the remote.

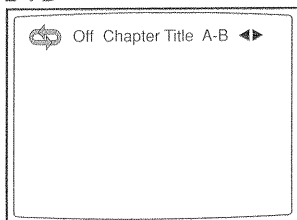
- Current Track number, elapsed time and volume control will be displayed.
- Use the ◀▶ LEFT/RIGHT button to select a Track. Use the ▲▼ UP/DOWN button or Number buttons to enter a different Track number and then press the ENTER button.
- To enter the time from which you want to start, use the ◀▶ LEFT/RIGHT button to select, then use the Number buttons to enter the time. Then press the ENTER button.

- To make the screen disappear, press the DISPLAY button again.
- In VCD 2.0 mode (MENU ON mode), only the volume control will appear on screen.

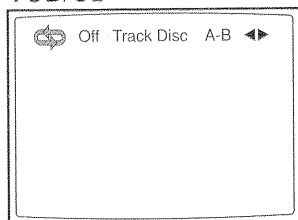
Repeat Playback

Repeat the current Track, Chapter, Title, a chosen section (A-B) or all the disc (only VCD/CD).

DVD



VCD/CD



Using the REPEAT button

- 1** Press the REPEAT button on the remote. Repeat screen appears.
- 2** Select Chapter, Title or A-B using the ◀▶ LEFT/RIGHT button.
 - A-B Repeat
 - 1 Press the REPEAT button. Select A-B on screen with the ◀▶ LEFT/RIGHT button.
 - 2 Press ENTER at the point where you want the repeat play to start (A). The (B) is automatically highlighted.
 - 3 Press ENTER at the point where you want the repeat play to stop (B).
 - 4 The A-B Repeat that you set plays until you turn off Repeat.

3 Press ENTER.

4 To return to normal playback press REPEAT again, then press the ◀▶ LEFT/RIGHT button to select Off and press ENTER.

Using the A-B REPEAT button

- 1** Press the A-B REPEAT button at the point where you want repeat play to start(A).
- 2** Press the A-B REPEAT button at the point where you want repeat play to stop(B).
 - The A-B Repeat that you set will play until you turn off Repeat.
- 3** To return to normal playback press the A-B REPEAT button again.

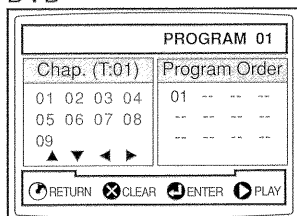
NOTES

- DVD repeats playback by Chapter or Title, CD and VCD repeat playback by disc or Track.
- Depending on the disc, the Repeat function may not work.
- If the Track is completed before marking the end (B), the end of Track becomes (B) automatically.
- If the DVD title is completed before marking the end (B), playback will stop and the marked start (A) will also be cleared.
- If the DVD chapter is completed before marking the end (B), following chapter will be played back, and the end (B) can be set.
- A-B REPEAT does not allow you to set point (B) until at least 5 seconds have elapsed after point (A) has been set.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.

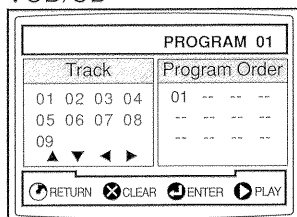
Program Playback and Random Playback

Programmed play allows you to specify the playback order of titles, chapters or tracks on a disc. This function is only possible when playback is stopped.

DVD



VCD/CD



Program Playback (DVD/VCD/CD)

- 1 Press the MODE button.
- 2 Use the ◀▶ LEFT/RIGHT button to select PROGRAM. Press the ENTER button.
- 3 Use the ▲▼◀▶ UP/DOWN/LEFT/RIGHT button to select the first Chapter (or Track) to add to program. Press the ENTER button.

- The selected numbers appear in the Program Order box.

- 4 Press the ▶/⏸PLAY/PAUSE button.

- The disc will be played back in programmed order.

Random Playback (DVD/VCD/CD)

- 1 Press the MODE button in the stop mode.
- 2 Use the ◀▶ LEFT/RIGHT button to select RANDOM. Press the ENTER button.

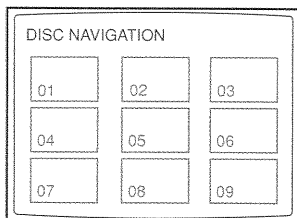
- The disc will be played back in random order.

NOTES

- Depending on the disc, the Program or Random Playback function may not work.
- This function is not available with VCD 2.0(MENU ON mode).
- To resume normal playback, press the CLEAR button.
- On DVD discs, programming is possible only for the title that has the largest number of chapters.

Using the Disc Navigation Function

By Disc Navigation you can view the first picture of each Chapter (DVD) or Track (VCD).



Using the Disc Navigation Function (DVD)

1 Press the DISC NAVIGATION button.

- The first picture of each Chapter/Track will be displayed.

2 Select Chapter/Track with the **▲▼◀▶** UP/DOWN/LEFT/RIGHT button.

- Each time the **▶▶**NEXT SKIP button is pressed, the following page will be shown: Pressing the **◀◀**BACK SKIP button will show the preceding page. (It will not be shown for some chapters/tracks.)

3 Press the ENTER button.

- Playback will begin.

- Playback will also begin will **▶** PLAY button.

NOTES

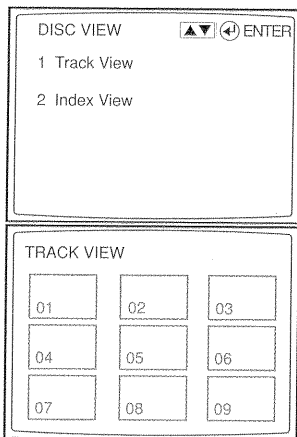
- If you press the DISC NAVIGATION button before pressing the ENTER button to start playback in step 3, DISC NAVIGATION function will end and the original picture will be restored.
- The next page will be shown if you move the red frame to the right and press **▶▶**NEXT SKIP button. It will go back to the former page if the red frame is moved to the left and **◀◀**BACK SKIP button is pressed.
- To display another Title No., press **▲** UP button. If you want to display with **◀▶** LEFT/RIGHT button, select the Title No. instead.
- With some discs, part of the DISC NAVIGATION screen may not appear or its position may drift, but this does not cause a problem in operation.

Using the Disc Navigation Function

You can directly access the desired music or video track without using the menu.

Track View (VCD)

Displays the beginning view of each Track and the Track number.



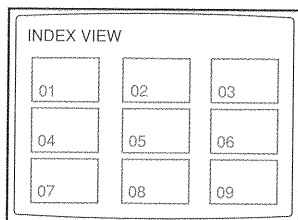
(example)

- 1 Press the DISC NAVIGATION button in the stop mode.
 - Press the MENU button to set to the MENU OFF mode, and then press the DISC NAVIGATION button.
- 2 Press the DISC NAVIGATION button during playback.
- 3 Press the ▲▼ UP/DOWN button to select TRACK VIEW. Press the ENTER button.
- 4 Select the desired view by pressing the ▲▼ UP/DOWN or ◀▶ LEFT/RIGHT buttons.

- 5 Press the ENTER button.

Index View (VCD)

Displays the equally divided 9 views of the current playing Track.



(example)

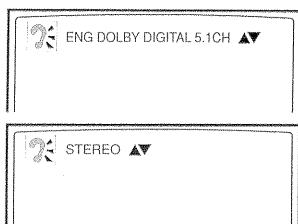
- 1 Press the DISC NAVIGATION button during playback.
- 2 Press ▲▼ UP/DOWN button to select INDEX VIEW. Press the ENTER button.
- 3 Select the desired view by pressing ▲▼ UP/DOWN or ◀▶ LEFT/RIGHT buttons.
- 4 Press the ENTER button.

NOTES

- When in VCD 1.1 & 2.0 mode (MENU OFF mode), this function works.
- In stop mode on VCD, press the DISC NAVIGATION button and the TRACK VIEW will be displayed directly.
- When pressing the DISC NAVIGATION on CD ; The unit enters the INTRO mode. INTRO lets you listen to the beginning of each Track for about 10 seconds.

Selecting the Audio Language

You can select a desired language quickly and easily with the AUDIO button.



NOTE

- Selected languages are displayed using abbreviations.
- (Examples) ENG: English
FRA: French
ESP: Spanish



(example)

NOTES

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 8 Audio languages.
- How to have the same Audio language come up whenever you playback a DVD;** Refer to "Setting Up the Language Features" on page 41.

Using the AUDIO Button

- 1 Press the AUDIO button.
- 2 Use the ▲▼ UP/DOWN button to select the desired language on a DVD.
- The audio languages are represented by abbreviations.
- 3 Use the ▲▼ UP/DOWN button to select STEREO, R CHANNEL or L CHANNEL.
(On VCD/CD)

Using the MENU Button

When playing a DVD

- 1 Press the MENU button.
- 2 Use the ▲▼ ◀▶ UP/DOWN /LEFT/RIGHT button to select AUDIO information.
- 3 Press the ENTER button.
- 4 Use the ▲▼ ◀▶ UP/DOWN /LEFT/RIGHT button to select the desired language on a DVD.
- 5 Press the ENTER button.

When playing a VCD

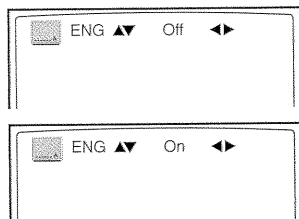
In disc version 2.0, the MENU button works as a conversion switch between MENU ON and MENU OFF mode.

When playing a VCD 1.1 or CD, the MENU button will not work.

Selecting the Subtitle Language

You can select a desired Subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE button



NOTE

- Selected languages are displayed using abbreviations.
(Examples) ENG: English
FRA: French
ESP: Spanish

- 1 Press the SUBTITLE button.
- 2 Use the ▲▼ UP/DOWN button to select the desired Subtitle language.
- 3 Use the ◀▶ LEFT/RIGHT button to determine whether or not the Subtitle will be displayed.

- Initially, the subtitle will not appear on screen.
- The Subtitle languages are represented by abbreviations.

Using the MENU button

When playing a DVD



(example)

NOTES

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 32 Subtitle languages.
- How to have the same Subtitle language come up whenever you playback a DVD;** Refer to "Setting Up the Language Features" on page 41.

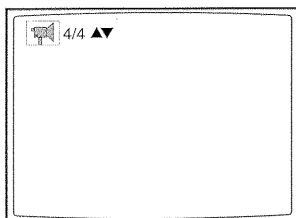
- 1 Press the MENU button.
- 2 Use the ▲▼ ◀▶ UP/DOWN /LEFT/RIGHT button to select SUBTITLE information.
- 3 Press the ENTER button.
- 4 Use the ▲▼ ◀▶ UP/DOWN /LEFT/RIGHT button to select the desired language.
- 5 Press the ENTER button.

When playing a VCD

In disc version 2.0, the MENU button works as a conversion switch between MENU ON and MENU OFF mode.
When playing a VCD 1.1 or CD, the MENU button will not work.


Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.



(example)

Using the ANGLE button

Check to see if an 'ANGLE' ()' mark is present at the upper right hand corner of the screen.

- 1 When an 'ANGLE' mark is shown, press the ANGLE button.
- 2 Use the **▲▼** UP/DOWN button to select the desired screen Angle. Then press the ENTER button.

- The ANGLE mark will reappear at the top right corner of screen.
- To turn off the display, use the Setup Menu to choose Display Options and specify Screen Messages "Off".

NOTES

- This function is disc-dependent, and may not work with all DVDs.
- This function does not work when a DVD has not been recorded with a multi-camera angle system.

Using the Master Volume Control Function

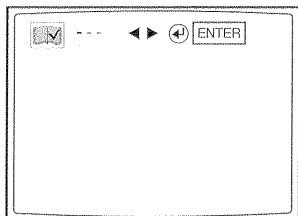
Press the DISPLAY button twice. Use the **▲▼** UP/DOWN button to select a suitable volume.

- Master Volume Control function lets you adjust the volume of the player's output. This is useful for matching the player's output level to other equipment in your system.
- When the DIGITAL OUTPUT is set to BITSTREAM in the SETUP MENU, the Volume Control function will not work.

Using the Bookmark Function

The Bookmark function lets you select parts of a DVD or VCD (MENU OFF mode) so that you can quickly find the section at a later time.

Using the Bookmark Function (DVD/VCD)



- 1 During playback, press the BOOKMARK button on the remote. Then a marker will be displayed.
- 2 Use the ◀▶ LEFT/RIGHT button to move to the desired bookmark icon.
- 3 When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
- 4 Press the BOOKMARK button to turn off the display.

Recalling a Marked Scene



- 1 During playback, press the BOOKMARK button on the remote.
- 2 Use the ◀▶ LEFT/RIGHT button to select a marked scene.
- 3 Press the ▶/⏸ PLAY/PAUSE button to skip to the marked scene.

Clearing a Bookmark

- 1 During playback, press the BOOKMARK button on the remote.
- 2 Use the ◀▶ LEFT/RIGHT button to select the bookmark number you want to delete.
- 3 Press the CLEAR button to delete a bookmark number. Press the BOOKMARK button to turn off display.

NOTES

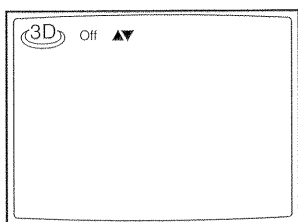
- Up to three scenes may be marked at the same time.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.
- Depending on the disc, the Bookmark function may not work.

Using the Zoom and Surround Functions

Using the Zoom Function (DVD/VCD)

- 1 During playback or pause mode, press the ZOOM button on the remote. A pointer will be displayed on screen.
- 2 Use the ▲▼ UP/DOWN or ◀▶ LEFT/RIGHT button to select the part of the screen you want to zoom.
- 3 Press the ENTER button.

- During DVD playback, press ENTER to zoom in 2X/4X/2X/normal.
- During VCD playback, press ENTER to zoom in 2X/normal.



NOTES

- 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL. However, some of these discs do not contain rear channel sound signals.
- Depending on the disc, the Zoom and Surround function may not work.

Using the Surround Function

The simulated surround effect (SPATIALIZER N-2-2) depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect.

This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs.

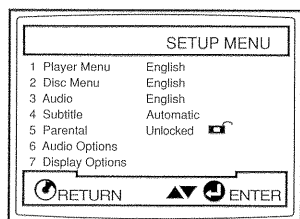
(Discs which are recorded with LPCM or DTS will not work. When the DIGITAL OUTPUT is set to BITSTREAM in the Setup Menu, the SURROUND function will not work.)

- 1 During playback, press the SURROUND button.
- 2 Press the ▲▼ UP/DOWN button to turn the Surround feature on or off.

- The SURROUND mark will be displayed on screen. (Be sure the DIGITAL OUTPUT is set to PCM.)

Using the Setup Menu

The Setup Menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.



1 Press the SETUP button on the remote in the stop mode.

1 Player Menu : Setup of the Display

Language (See page 41)

Use the Player preference menu to select the language for the player's on-screen displays.

2 Disc Menu : Setup of the Menu Language

(See page 41)

Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.

3 Audio : Setup of the Audio Language (See page 42)

Use the Audio preference menu to select the soundtrack language.

4 Subtitle : Setup of the Subtitle Language

(See page 42)

Use the Subtitle preference menu to select the language the disc's Subtitles are to be displayed in.

5 Parental : Setup of the Parental Level

(See page 43)

Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, X rating, etc.

6 Audio Options : Setup of the Audio Options (See page 44)

7 Display Options : Setup of the Display Options

(See page 45)

Use to select which type of screen you want to watch and several display options.

2 Use the **▲▼** UP/DOWN button on the remote to access the different features.

3 Press the ENTER button to access the sub features.

To make the Setup Menu disappear after setting up, press the SETUP button again.

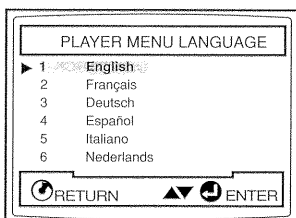
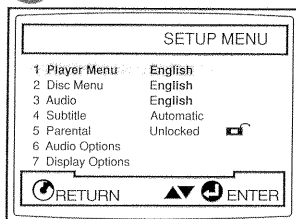
NOTES

- Depending on the disc, some Setup Menu selections may not work.
- This menu screen will disappear if there is no operation for approx. two minutes.

Setting Up the Language Features

If you set the Player Menu, Disc Menu, Audio and Subtitle language in advance, it will come up automatically every time you watch a movie.

e.g Setting up in ENGLISH.



Using the Player Menu

- 1 Press the SETUP button when in stop mode.
- 2 Use the ▲▼ UP/DOWN button to select Player Menu.
- 3 Press the ENTER button.
- 4 Use the ▲▼ UP/DOWN button to select 'ENGLISH'.
- 5 Press the ENTER button.

- ENGLISH is selected and the screen returns to Setup Menu.
- To make the Setup Menu disappear, press the RETURN button.

e.g Setting up in ENGLISH.



Using the Disc Menu Language

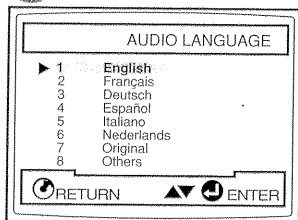
This function changes the language only for the text on the Disc Menu screens.

- 1 Press the SETUP button when in stop mode.
- 2 Use the ▲▼ UP/DOWN button to select Disc Menu.
- 3 Press the ENTER button.
- 4 Use the ▲▼ UP/DOWN button to select 'ENGLISH'.
- 5 Press the ENTER button.

- Select "OTHERS" if the language you want is not listed.
- ENGLISH is selected and the screen returns to Setup Menu.

Setting Up the Language Features

e.g Setting up in ENGLISH.



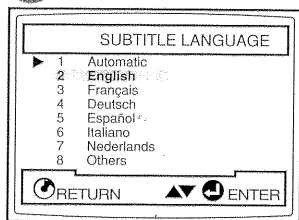
Using the Audio Language

- 1** Press the SETUP button when in stop mode.
- 2** Press the **▲▼** UP/DOWN button to select Audio.
- 3** Press the ENTER button.
- 4** Press the **▲▼** UP/DOWN button to select 'ENGLISH'.
 - Select "ORIGINAL" if you want the default soundtrack language to be the original language the disc is recorded in.
 - Select "OTHERS" if the language you want is not listed.

5 Press the ENTER button.

- ENGLISH is selected and the screen returns to Setup Menu.

e.g Setting up in ENGLISH.



Using the Subtitle Language

- 1** Press the SETUP button when in stop mode.
- 2** Use the **▲▼** UP/DOWN button to select Subtitle.
- 3** Press the ENTER button.
- 4** Use the **▲▼** UP/DOWN button to select 'ENGLISH'.
 - Select "AUTOMATIC" if you want the Subtitle language to be the same as the language selected as the audio preference.
 - Select "OTHERS" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

5 Press the ENTER button.

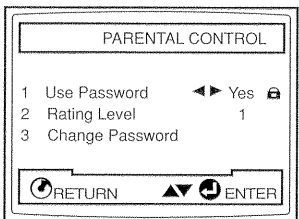
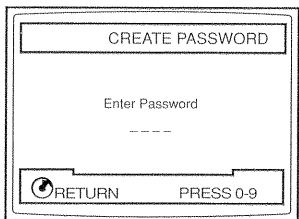
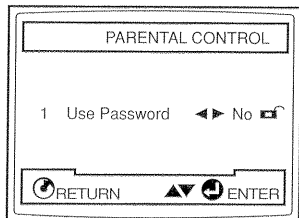
- ENGLISH is selected and the screen returns to Setup Menu.

NOTES

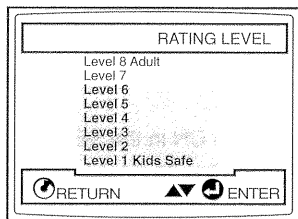
- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- **How to make the current Menu disappear and return to Setup Menu during set up;**
Press RETURN button.

Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.



e.g Setting up in LEVEL 6



NOTES

- How to make the SETUP MENU disappear or return to menu screen during setup; Press RETURN button.
- If you have forgotten your password, see Forgot Password in the Troubleshooting Guide.

- 1 With no disc playing, press SETUP. The Setup Menu screen appears.
- 2 Use **▲▼** UP/DOWN to select Parental. Press ENTER. The Parental Control screen appears.
- 3 Use **◀▶** LEFT/RIGHT to select Yes if you want to use a password. Press ENTER. The Enter Password screen appears.
- 4 Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again. The Parental Control screen appears.

5 About the Rating Level ;

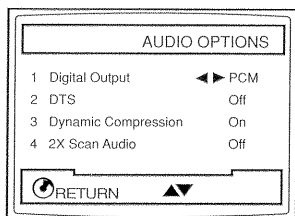
The Rating Level will work only when Use Password is set to Yes. To unlock the player, use **◀▶** LEFT/RIGHT to select No. Use **▲▼** UP/DOWN to select Rating level. Press ENTER.

- Use **▲▼** UP/DOWN to select the level (e.g. Level 6) and press ENTER. The disc that contains Level 7 will now not play.
- To cancel the rating level, use **◀▶** LEFT/RIGHT to select No in Use Password.

6 About the Change Password ;

- Use **▲▼** UP/DOWN to select Change Password. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.

Setting Up the Audio Options



1 Press the SETUP button when in stop mode.

2 Use the **▲▼** UP/DOWN button to select Audio Options. Then press the ENTER button.

3 Use the **▲▼** UP/DOWN button to select the desired item. Then press the **◀▶** LEFT/RIGHT button.

❶ DIGITAL OUTPUT

❶ PCM : Converts to PCM(2CH) 48kHz/16bit audio.

Select PCM when using 3D sound.

❷ BITSTREAM : Converts to Dolby Digital BITSTREAM (5.1CH).

Select BITSTREAM when using the Dolby Digital Audio Output.

NOTE : Be sure to select the correct Digital Output.

❷ DTS

❶ ON : Outputs DTS BITSTREAM via digital output only. Select DTS when connecting to a DTS DECODER.

❷ OFF : Doesn't output DTS signal.

❸ DYNAMIC COMPRESSION

❶ ON : To select dynamic compression.

❷ OFF : To select the standard range.

❹ 2X SCAN AUDIO

❶ ON : Turns 2X audio on.

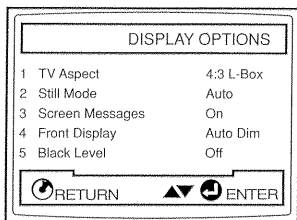
❷ OFF : Turns 2X audio off.

Though 2X SCAN AUDIO is ON in the SETUP MENU, no sound will be heard on discs which are recorded with LPCM, DTS or MPEG-2 Audio.

NOTES

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- **How to make the current Menu disappear and return to Setup Menu during set up;**
Press RETURN button.

Setting Up the Display Options



- 1 Press the SETUP button in stop mode.
- 2 Use the ▲▼ UP/DOWN button to select Display Options. Then press the ENTER button.

- 3 Use the ▲▼ UP/DOWN button to select the desired item. Then press the ENTER button or ◀▶ LEFT/RIGHT button.

① TV ASPECT

Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).

② STILL MODE

Prevent picture shaking in still mode and display small text clearer.

③ SCREEN MESSAGES

Use to turn on-screen messages on or off.

④ FRONT DISPLAY

Adjust the brightness of the unit's front panel display.

⑤ BLACK LEVEL

Adjust the brightness of screen.

- 4 Use the ▲▼ UP/DOWN button to select the desired item. Press the ◀▶ LEFT/RIGHT and then the ENTER button.

① TV ASPECT

1 4:3 LETTER BOX :

Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

2 4:3 PAN-SCAN :

Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

3 16:9 WIDE :

You can view the full 16:9 picture in your widescreen TV.

NOTE

- Depending on the Disc, TV Aspect selection may not work.

Setting Up the Display Options

② STILL MODE

- ① FIELD : Select this feature when the screen shakes in the AUTO mode.
- ② FRAME : Select this feature when you want to see small letters more clearly in the AUTO mode.
- ③ AUTO : When selecting AUTO, FIELD/FRAME mode will be automatically converted.

③ SCREEN MESSAGES

Use this feature to turn the on-screen displays on or off that appear in screen.

④ FRONT DISPLAY

- ① BRIGHT : It makes the Front Panel Display bright.
- ② DIM : It makes the Front Panel Display dim.
- ③ AUTO DIM : It makes the Front Panel Display dim automatically when playing a DVD.

⑤ BLACK LEVEL





- ① OFF : The screen appears dim.
- ② ON : The screen appears bright.
(Set to "OFF" at the factory.)

NOTES

- Certain audio features of this product manufactured under a license from Desper Products, Inc., Spatializer® 3-D Stereo, Spatializer N-2-2 and the circle-in-square are trademarks owned by Desper Products Inc.
- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories Inc. All rights reserved.
- DTS is a surround audio standard that offers 6 separate audio channels like the Dolby Digital. To hear DTS sound, the DIGITAL AUDIO OUT must be connected to a DTS compatible device.

Troubleshooting Guide

Before requesting service (troubleshooting)

Problem	Action	Page
No operations can be performed with remote.	<ul style="list-style-type: none"> • Check the batteries in the remote. May need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again. 	P6
Disc does not play.	<ul style="list-style-type: none"> • Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD. • This player cannot play CD-ROMs, DVD-ROMs, etc. Insert a DVD, a VCD or a CD. 	P13
5.1 channel sound is not being reproduced.	<ul style="list-style-type: none"> • 5.1 channel sound is reproduced only when the following conditions are met. : <ol style="list-style-type: none"> 1)The DVD player is connected with the proper amplifier 2)The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly. 	P23-24
The  icon appears on screen.	<ul style="list-style-type: none"> • The features or action cannot be completed at this time because: <ol style="list-style-type: none"> 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 	P27-32 P36-41
Disc Menu doesn't appear.	<ul style="list-style-type: none"> • Check if the disc has a Menu. 	P35-36
Playback mode differs from the Setup Menu selection.	<ul style="list-style-type: none"> • Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function. 	P41-47
The screen ratio cannot be changed.	<ul style="list-style-type: none"> • The Screen Ratio is fixed on your DVDs. 	P45-46
No audio.	<ul style="list-style-type: none"> • Make sure you have selected the correct Digital Output in the Audio Options Menu. 	P44
Forgot password	<ul style="list-style-type: none"> • Press power on from a cold start with no disc in the unit. Press the  STOP and  PLAY buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the SETUP button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the  DOWN button to select Parental. Press ENTER and the Create Password will appear. You can now set your rating level and create a new password. 	P43
If you experience other problems.	<ul style="list-style-type: none"> • Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center. 	

Specifications

General	Power Requirements	AC 120 V, 60 Hz
	Power Consumption	15 W
	Weight	2.7 kg
	Dimensions	W 430 mm x D 240 mm x H 79 mm
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12 cm (COMPACT DISC) CD : 8 cm (COMPACT DISC) VCD : 12 cm	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min. Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 20 min. Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min. (Video + Audio)
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load) Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
	Component Video S-VIDEO	Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.286 Vp-p (75 Ω load)
Audio Output	2 Channel	L(1/L), R(2/R)
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

*: Nominal specification

· Weight and dimensions are approximate.

HITACHI

service hotline

To locate an authorized
HITACHI service facility in
the continental U.S.A

DIAL TOLL FREE
7 days a week, 24 hours a day

800 HITACHI

1-800-448-2244

Hitachi has made every effort to assure you hours of trouble free operation from your unit. However, should you require service, a network of Hitachi Authorized Service Facilities has been established in all 50 states and Puerto Rico. Each facility will provide you with convenient and expedient assistance. Our service "Hotline" operator will direct you to the Hitachi Authorized Service Facility nearest you. Just present proof of purchase and/or delivery receipts to the Hitachi Authorized Service Facility and service will be rendered in accordance with the terms of the limited warranty as stated on your warranty card or operating guide.

Should you have any questions regarding in-warranty service, operation or technical assistance, please contact:

HITACHI AMERICA, LTD.
HOME ELECTRONICS DIVISION

1855 Dornoch Court,
San Diego, CA 92154-7225
Tel: 1-800-HITACHI
(1-800-448-2244)

HITACHI CANADA LTD.
DIGITAL MEDIA DIVISION

6740 Campobello Road, Mississauga,
Ontario L5N 2L8 CANADA
Tel: 1-800-HITACHI
(1-800-448-2244)

during the business hours
Monday - Friday EST 9:00am~7:00pm
Saturday EST 9:00am~5:00pm

durant les heures de bureau :
Lundi au Vendredi 9:00am~7:00pm (h.n.e.)
Samedi 9:00am~5:00pm (h.n.e.)